Presentation of a climatic classification with approach on road pavement management for west and northwest of Iran

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ABSTRACT

Since the early times the primary methods were used to make civil projects and especially transportation networks at present time which is designed complex and exact method, the climate and its properties have usually had direct interference for making tendency of structure as an important and vital parameter.

Iran which has located in western south of Asia between the altitudes from the northern grids 25 – 40, had been had the pass way of different climatic systems and masses in which its result has been nothing but produce the various climatic regions on its land. So regarding the variety of regions in this land, there is exactly necessary a great attention to climatic phenomena to manufacture and exploit of transportation projects .Then in this study to achieve the classifications having the same climatic properties making attention to use to the west and northern west region of the country base on road pavement management necessary.

The making this classification, it has been exploited for period of 15 years through 10 meteorology parameter from 38 synoptic stations in thr regions. Firstly, the achieved that has been converted to the standard Z score then selected by Cluster Analysis method, as an advanced statistical analysis to clustering the stations and finally those classifications. The produced classification was placed on the under groundwater zoning and the final classification produced at GIS environment. For the latest step the necessary suggestions were presented to correctly road pavement management for each class.